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(57) Abstract:

PURPOSE: To continuously separate mixed gases by moving and rotating an annular packed tank with a molecular sieve.

CONSTITUTION: The tank 5 to be packed with the molecular sieve is of an annular form and is also divided into a number of the packing chambers 7 by partition plates 6 provided radially inside. The packing chambers 7 are packed with a powdery, granular, or hot-press molded molecular sieve and also provided with lower and upper plates 8 and 8' made of an air-permeable metal netting serving as a filter. When compressed air is supplied through the air inlet 2', oxygen, for example in the incoming air is adsorbed to the molecular sieve in the packing chamber 7, nitrogen alone is flowed out of the outlet 3', and the adsorbed oxygen is sucked and desorbed at the position of the suction port 4'.

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